

STM-Structure Search
5-1-06

10/529,185

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L5 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:51176 CAPLUS

DOCUMENT NUMBER: 144:130597

TITLE: Polyoxyalkylene surfactant-containing water-thinned jet-printing inks with good breakage prevention of heads, their manufacture, and containers, heads, and printers containing them

INVENTOR(S): Mukai, Hiroshi

PATENT ASSIGNEE(S): Seiko Epson Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006016532	A2	20060119	JP 2004-196767	20040702
PRIORITY APPLN. INFO.:			JP 2004-196767	20040702

AB The inks comprise ≥ 1 colorants, ≥ 1 liquid media for dissoln. or dispersion of them, and ≥ 1 surfactants containing purified $R_1O(R_2O)_nH$ (I; R_1 = alkyl, alkylphenyl, alkoxyphenyl, alkylcarbonyl; R_2 = alkylene; n = pos. number). Thus, an aqueous ink consisting of black dye (Special Black SP liquid) 21.0, I (R_1 = $C_9H_{19}C_6H_4$, R_2 = C_2H_4 , n = 10) purified in H_2O 0.1, $R_3CMe(OH)C.tplbond.CCMe(OH)R_3$ (II; R_3 = Et) 1.5, II (R_3 = iso-Bu) 0.1, glycerin 11.0, 2-pyrrolidone 7.5, and H_2O 58.8% showed good prevention of delamination between an adhesive and a SiO_2 layer-containing Si piece, fast drying properties, and bubble ejecting properties in cleaning.

IT 2611-80-5, C.I. Acid Red 82 4478-76-6, C.I. Acid Red 80

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

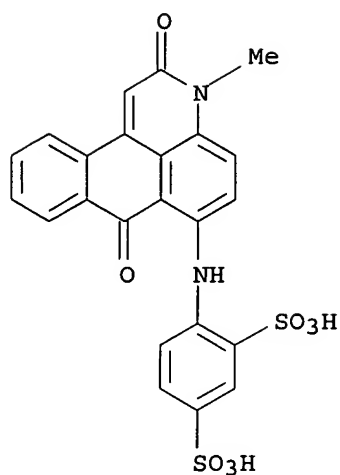
(dye; head breakage-preventing aqueous jet-printing inks containing ethoxylated

surfactants and containers and ink-jet printer heads for them)

RN 2611-80-5 CAPLUS

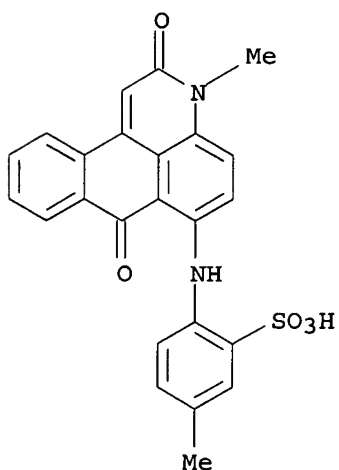
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

10/529,185



● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:1132383 CAPLUS
DOCUMENT NUMBER: 143:407242
TITLE: Ink-jet ink set for printing on laminated materials.
INVENTOR(S): Blease, James W.; Evans, Steven; Potenza, Joan C.
PATENT ASSIGNEE(S): Eastman Kodak Company, USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

10/529,185

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005229810	A1	20051020	US 2004-824693	20040415
US 7033425	B2	20060425		
WO 2005105935	A1	20051110	WO 2005-US12036	20050412
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2004-824693 A 20040415

AB A long-term photostable aqueous ink-jet ink set for printing on laminated materials comprises (a) a cyan ink comprising an aqueous vehicle and a sulfonated copper phthalocyanine dye, (b) a magenta ink comprising an aqueous vehicle and an azo-naphthol derivative magenta dye, a metal complex magenta dye, or a anthrapyridone magenta dye or mixts. thereof, (c) a yellow ink comprising an aqueous vehicle and a pyrazoleazoindole yellow dye or azo pyrazole-azole yellow dye or mixts. thereof and (d) a black ink comprising an aqueous vehicle and a metal complex black dye. Thus, cyan ink consisting of 3.3 weight% of Direct Blue 199 dye, 20 - 95 weight% of water, 5 - 70 weight% of

humectants, 0.1 - 10 weight% of surfactants, 0.05 - 5 weight% of biocides and 0.1 - 10 weight% of pH control agents is used for printing on Kodak Instant Dry Glossy media and Ilford Instant Dry media with a standard Canon S520 printer followed by laminating 1 day after printing resulting in printout photostable after 2 wk exposure with 50 kLux day light.

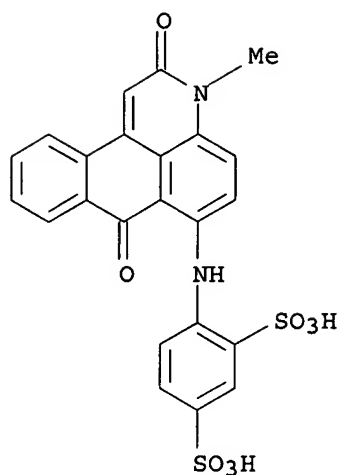
IT 2611-80-5, Acid red 82 4478-76-6, Acid red 80

RL: TEM (Technical or engineered material use); USES (Uses)
(magenta dye; long-term photostable aqueous ink-jet ink set for printing on laminated materials)

RN 2611-80-5 CAPLUS

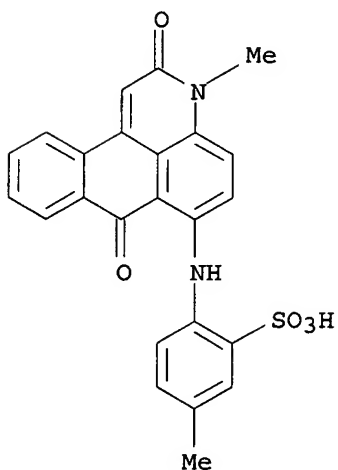
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

10/529,185



● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

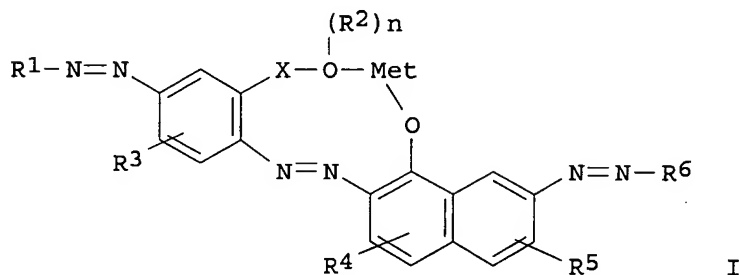
L5 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:368896 CAPLUS
DOCUMENT NUMBER: 142:393959
TITLE: Ink jet ink set
INVENTOR(S): Blease, James W.; Weinstein, Luann K.
PATENT ASSIGNEE(S): Eastman Kodak Company, USA
SOURCE: U.S. Pat. Appl. Publ., 6 pp.
CODEN: USXXCO

10/529,185

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005087100	A1	20050428	US 2003-695119	20031028
WO 2005044935	A1	20050519	WO 2004-US35658	20041027
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-695119 A 20031028
OTHER SOURCE(S): MARPAT 142:393959
GI



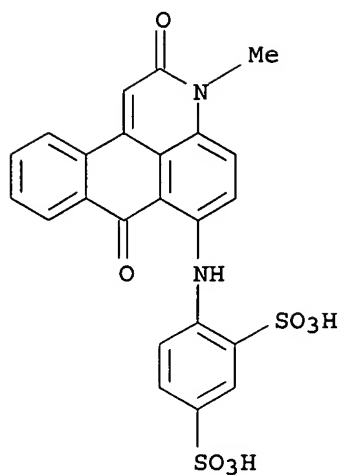
AB An ink jet ink set comprises: (a) a cyan ink comprising a carrier and a sulfonated copper phthalocyanine dye; (b) a magenta ink comprising a carrier and an anthrapyridone magenta dye or metal complex magenta dye, or azo-naphthol derivative magenta dye or mixture thereof; (c) a yellow ink comprising a carrier and an azo-aniline yellow dye or metal complex yellow dye or mixts. thereof; and (d) a trisazo black dye I, where Met is a metal atom, preferably Al, Co, Cr, Cu, Fe, or Ni; R1 is a Ph or naphthalene radical substituted by 1, 2 or 3 substituents selected from the group consisting of OH, O(C1-6)-alkyl, COOM, SO3M and NH2; R2 is C1-6-alkyl, n is 0 or 1, X is a chemical bond or -CO- or -SO2-; R3 is H, Me or O(C1-6)-alkyl; R4 and R5 are each H, COOM or SO3M; R6 is a Ph, pyridyl or pyrazole radical substituted by 1, 2 or 3 substituents selected from the group consisting of OH, O(C1-6)-alkyl, COOM, SO3M, NH2, NHaryl, NHacyl and phenylsulfo; and M is ammonium, H, K, Li, or Na.

IT 2611-80-5, Acid Red 82 4478-76-6, Acid Red 80
RL: TEM (Technical or engineered material use); USES (Uses)
(ink jet ink set)

RN 2611-80-5 CAPLUS

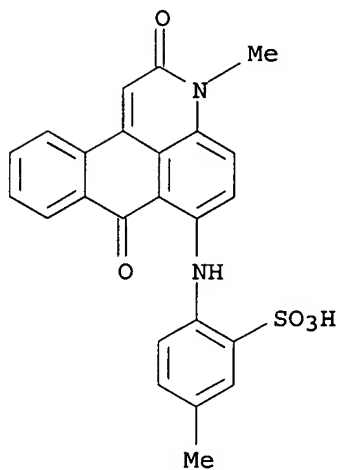
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

10/529,185



● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:368895 CAPLUS
DOCUMENT NUMBER: 142:393958
TITLE: Ink jet ink set containing metal complex dyes
INVENTOR(S): Blease, James W.; Weinstein, Luann K.
PATENT ASSIGNEE(S): Eastman Kodak Company, USA
SOURCE: U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

10/529,185

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005087099	A1	20050428	US 2003-695165	20031028
WO 2005044936	A1	20050519	WO 2004-US35946	20041028
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-695165 A 20031028

OTHER SOURCE(S): MARPAT 142:393958

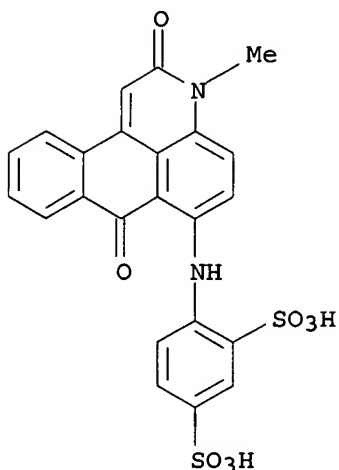
AB An ink jet ink comprises: (a) at least one first metal complex black dye that when printed alone on a receiving element gives a CIELAB a* value>0 and at 1.0 Status A visual d.; (b) at least one second metal complex black dye that when printed alone on a receiving element gives a CIELAB a* value<0 and at 1.0 Status A visual d.; and (c) at least one yellow azo-aniline yellow dye or metal complex yellow dye or mixts. thereof.

IT 2611-80-5, Acid Red 82 4478-76-6, Acid Red 80

RL: TEM (Technical or engineered material use); USES (Uses)
(ink jet ink set containing metal complex dyes)

RN 2611-80-5 CAPLUS

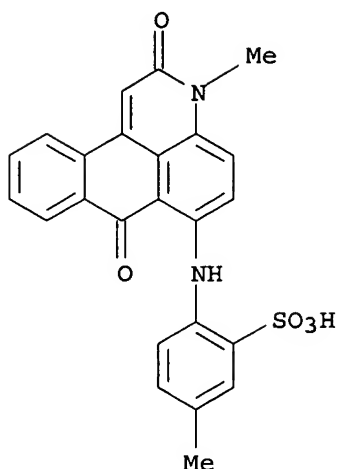
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 4478-76-6 CAPLUS

CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



L5 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:235167 CAPLUS

DOCUMENT NUMBER: 142:281732

TITLE: Water-thinned ink-jet recording inks with improved resistance to discoloration due to sodium hypochlorite-containing bleachers or disinfectants

INVENTOR(S): Aoi, Noriatsu; Tsuda, Masayuki; Yamazaki, Hideto

PATENT ASSIGNEE(S): Brother Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

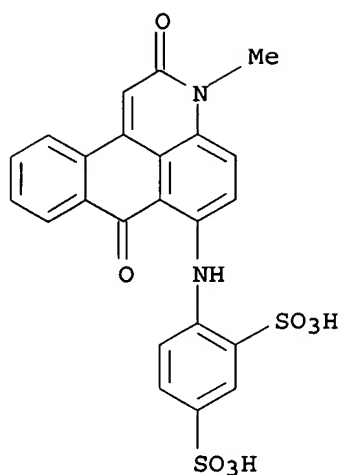
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

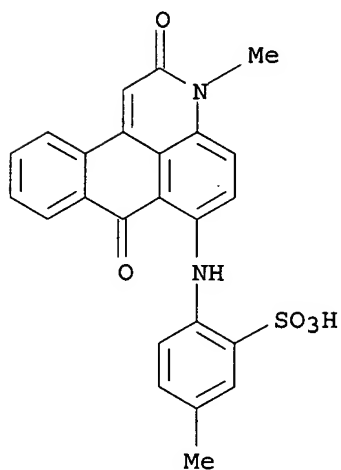
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2005068220	A2	20050317	JP 2003-296701	20030820
PRIORITY APPLN. INFO.:				JP 2003-296701	20030820
AB	The inks contain water, humectants, azo-free acidic dyes with logP (P = octanol-water partition coefficient) -2.0 to 2.0, and C ₁₃ lower alkyl ethers with logP 0.7-2.0. Thus, an aqueous ink containing glycerin 27.0, diethylene glycol monobutyl ether 3.0, C.I. Acid Red 80 1.0, and C.I. Acid Red 82 1.0 part showed color d. 0.70 and 0.53, initially and after rubbing with 0.5 M Na hypochlorite, resp., and no deposition after 3 days at 60° and 10% humidity and 1 day at room temperature				
IT	2611-80-5, C.I. Acid Red 82 4478-76-6, C.I. Acid Red 80				
RL:	TEM (Technical or engineered material use); USES (Uses) (acidic dye; water-thinned ink-jet inks containing azo-free acidic dyes and lower alkyl ethers with improved bleach and deposition resistance)				
RN	2611-80-5 CAPLUS				
CN	1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)				

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● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



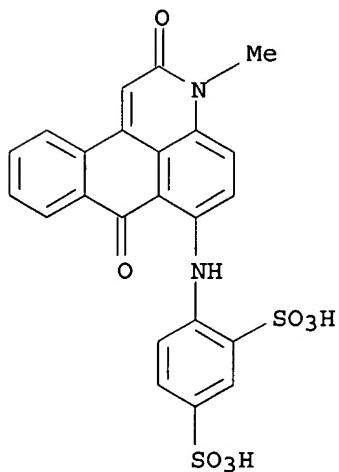
● Na

L5 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:330838 CAPLUS
DOCUMENT NUMBER: 140:365756
TITLE: Hardenable composition containing anthrapyrimidine
acidic dye or amine salt thereof, color filter
therefrom, and manufacture thereof
INVENTOR(S): Suzuki, Nobuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKXXAF

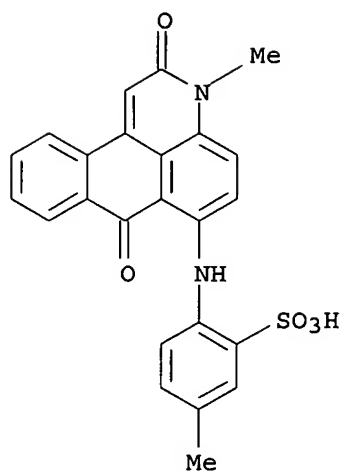
10/529,185

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	JP 2004126193	A2	20040422	JP 2002-289714	20021002
PRIORITY APPLN. INFO.:				JP 2002-289714	20021002
AB	In the hardenable composition containing a binder and a dye, the dye is an anthrapyrimidine acidic dye or an amine salt thereof. The color filter is manufactured by applying the hardenable composition on a support and effecting imagewise exposure through a photomask. The color filter used for a liquid crystal display and an optical imager exhibited little photo and thermal degradation				
IT	2611-80-5D, C.I. Acid red 82, reaction product with amine 4478-76-6D, C.I. Acid red 80, reaction product with amine RL: DEV (Device component use); USES (Uses) (hardenable composition containing anthrapyrimidine acidic dye or amine salt thereof for color filter)				
RN	2611-80-5 CAPLUS				
CN	1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)				



RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:200392 CAPLUS

DOCUMENT NUMBER: 140:255103

TITLE: Ink-jet ink containing methyl-1,3--butanediol, ink-jet ink set and ink-jet recording technique

INVENTOR(S): Ishibashi, Daisuke; Ogasawara, Yuki

PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004075767	A2	20040311	JP 2002-235616	20020813
PRIORITY APPLN. INFO.:			JP 2002-235616	20020813

OTHER SOURCE(S): MARPAT 140:255103

AB The ink comprises water, a water-soluble organic solvent and a water-soluble dye,

wherein the solvent contains 2- or 3-methyl-1,3-butanediol and the water-soluble dye is selected from compds. [(R1)nC6H4N:NC6H3(R2)mNH]2J (R1, R2 = H, substitute groups; m = 1-4; n = 1-5; J = carbonyl, 1,3,5-triazine diyl groups). The ink may contain a surfactant such as acetylene glycol and ethylene oxide adduct of polypropylene glycol or acetylene glycol. The ink-jet recording technique using this ink can provide prints with excellent quality and light resistance.

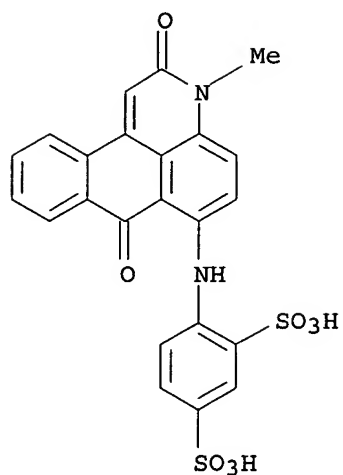
IT 2611-80-5 4478-76-6

RL: TEM (Technical or engineered material use); USES (Uses)
(water-soluble dye; ink-jet ink containing 3-methyl-1,3--butanediol, ink-jet ink set and ink-jet recording technique)

RN 2611-80-5 CAPLUS

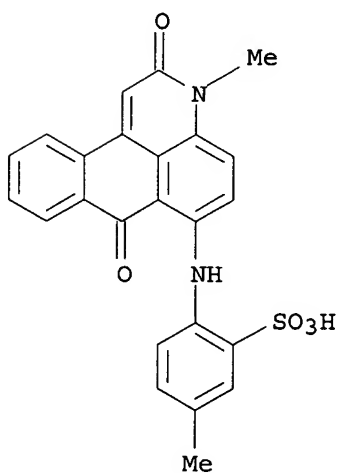
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

10/529,185



● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:198565 CAPLUS
DOCUMENT NUMBER: 140:237253
TITLE: Ink-jet ink containing butanol and surfactant, ink-jet ink set and ink-jet recording technique
INVENTOR(S): Ishibashi, Daisuke; Ogasawara, Yuki
PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

10/529,185

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004075766	A2	20040311	JP 2002-235615	20020813
PRIORITY APPLN. INFO.:			JP 2002-235615	20020813

OTHER SOURCE(S): MARPAT 140:237253

AB The ink comprises water, a water-soluble organic solvent, a water-soluble dye, and

a surfactant (e.g., acetylene diol, ethylene oxide adduct of acetylene diol or polypropylene glycol), wherein the solvent contains butanol and the content of the surfactant is 1.1-5.0%. The ink-jet recording technique using this ink can provide prints with improved light resistance and can resolve problems such as occurrence of the beading in the printed portions, bleeding of colors, and feathering of prints.

IT 2611-80-5 4478-76-6

RL: TEM (Technical or engineered material use); USES (Uses)

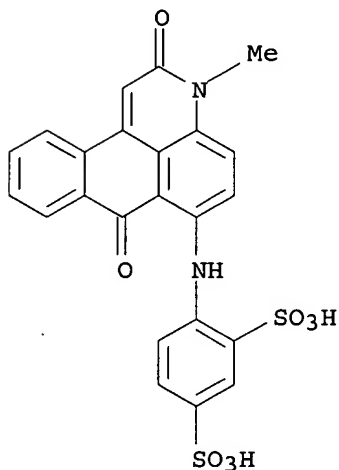
(water-soluble dye; ink-jet ink containing butanol and surfactant, ink-jet

ink

set and ink-jet recording technique)

RN 2611-80-5 CAPLUS

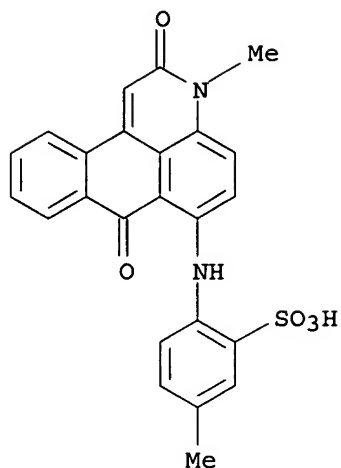
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 4478-76-6 CAPLUS

CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:175966 CAPLUS
 DOCUMENT NUMBER: 140:219488
 TITLE: Ink-jet inks, and their use in ink sets and printing method
 INVENTOR(S): Ogasawara, Arinori; Ishibashi, Daisuke
 PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004067925	A2	20040304	JP 2002-231173	20020808
PRIORITY APPLN. INFO.:			JP 2002-231173	20020808
OTHER SOURCE(S):	MARPAT	140:219488		

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

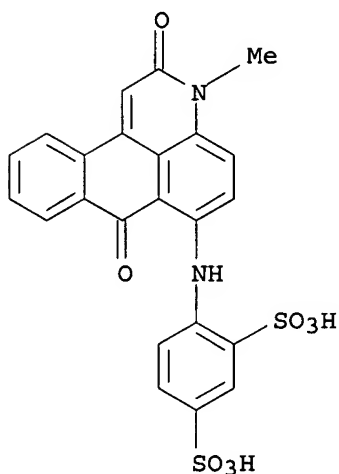
AB The inks with high resistance to beading, bleeding, feathering, striking-through, and light, contain water, water-soluble organic solvents, isobutanol or tert-butanol, and (1) [C6R1nH5-nN:NC6R2mH4-mNH]2J (R1, R2 = H, substituent; m = 1-4; n = 1-5; J = carbonyl, 2-substituted 1,3,5-triazine residue), (2) diazo compds. I (R4, R5 = H, substituent; g, h = 1-5), (3) N-containing polycyclic compds. II (R6-R10 = H, substituent; p = 1-4; q = 1-5), (4) 1-naphthol substituted with X-N:N, (SO3Y)s, NHZ, and R11r (r11 = H, substituent; X = Ph, naphthyl; r = 1-4; s = 1, 2; r + s = 5; Y = H+, Na+, K+, Li+, NH4+, alkylammonium ion; Z = carbonyl, sulfonyl, substituted triazinyl), (5) water-soluble Cu phthalocyanines, or (6) surfactants and 1-naphthol substituted with C6R12tH5-tN:NC6R13uH4-uN:N in 2-position, R14w, and NHR15 (R12-R15 = H, substituent; t, w = 1-5; u =

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1-4). The ink sets contain yellow inks, magenta inks, cyan inks, and black inks made of the above inks. The printing method for ordinary paper or media having hydrophilic polymer-containing ink receptor layers is carried out by using the above inks. Thus, ordinary paper was jet-printed with an aqueous ink containing C.I. Direct Blue 199 (Cu phthalocyanine dye), tert-butanol, solvents, and an additive to give an image with high lightfastness.

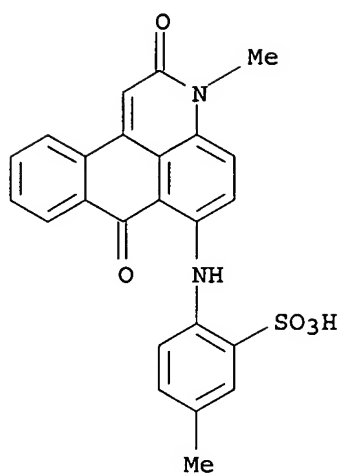
IT 2611-80-5 4478-76-6
RL: TEM (Technical or engineered material use); USES (Uses)
(ink containing; water-thinned ink-jet inks containing isobutanol or tert-butanol for ink sets and printing method)

RN 2611-80-5 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:677444 CAPLUS

DOCUMENT NUMBER: 133:268387

TITLE: Ink-jet recording method using magenta inks to give light-resistant images

INVENTOR(S): Sano, Hideo; Yamada, Masahiro

PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 56 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

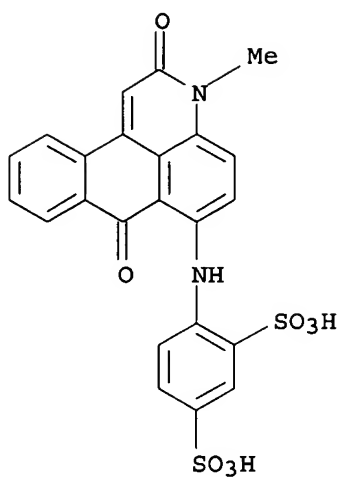
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

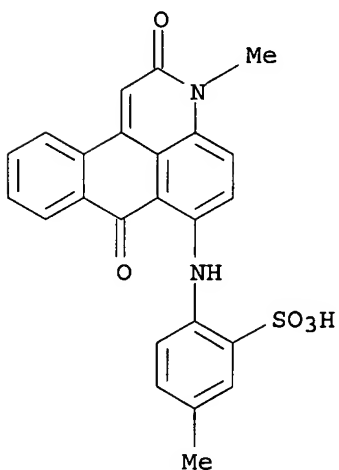
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	JP 2000265099	A2	20000926	JP 1999-91202	19990331
PRIORITY APPLN. INFO.:				JP 1999-6254	A 19990113
AB	Title method, using at least two magenta inks which contain different colored dyes, is characterized in that at least one magenta ink contain at least one metal-containing azo dye. Thus, an ink comprising C.I. Direct Yellow 132, magenta azo dye, C.I. Reactive Red 23 (metal-containing magenta azo dye), C.I. Direct Blue 86, and C.I. Food Black 2 gave a sharp full color image with good light resistance on deep, light, and mixed color areas.				
IT	2611-80-5, C.I. Acid Red 82 4478-76-6, C.I. Acid Red 80				
RL:	TEM (Technical or engineered material use); USES (Uses) (magenta ink-containing ink-jet ink compns. giving good light-resistant images)				
RN	2611-80-5 CAPLUS				
CN	1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)				

10/529,185



● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)

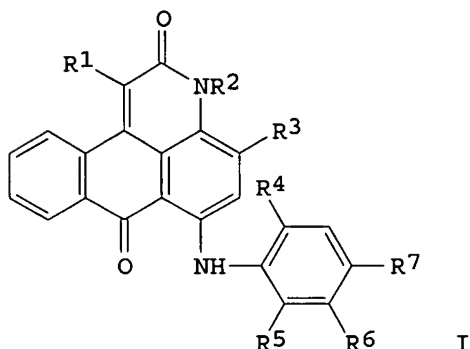


● Na

L5 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:72468 CAPLUS
DOCUMENT NUMBER: 116:72468
TITLE: Color filter for liquid-crystal display device
INVENTOR(S): Sawaki, Kenji; Kiama, Mariko; Hirasawa, Yutaka
PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 03100502	A2	19910425	JP 1989-235601	19890913
PRIORITY APPLN. INFO.:			JP 1989-235601	19890913
OTHER SOURCE(S):	MARPAT	116:72468		
GI				



AB In the title color filter in which a patternwise colored film is set on a base, at least one pattern is colored by a pyridone derivative I (R1 = H, MeCO, PhCO; R2 = H, Me; R3 = H, OMe, etc.; R4 = H, Me; R5 = H, Me, SO3M; M = H, Na, K, etc.; R6 = H, Cl, SO3M; R7 = H, Me, Bu, SO3M). The title color filter shows high reliability.

IT 2611-80-5 4478-76-6

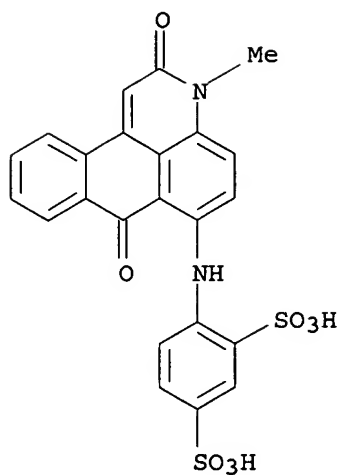
RL: USES (Uses)

(color filters containing, for liquid-crystal display devices)

RN 2611-80-5 CAPLUS

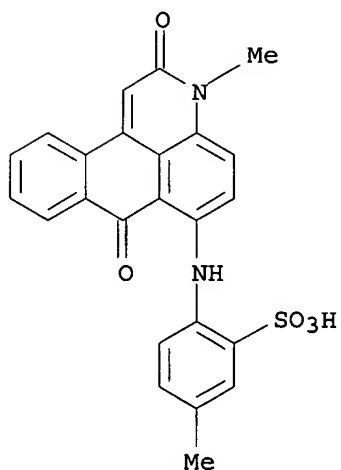
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

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● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:497632 CAPLUS
DOCUMENT NUMBER: 107:97632
TITLE: Scale-preventing coatings for vinyl chloride polymer manufacture
INVENTOR(S): Koyanagi, Shunichi; Kitamura, Hajime; Shimizu, Toshihide; Kaneko, Ichiro
PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 153 pp.
CODEN: EPXXDW

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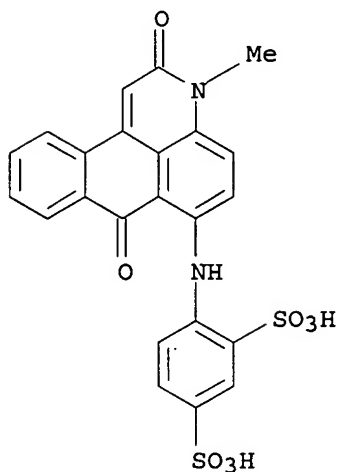
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 172427	A2	19860226	EP 1985-109161	19850722
EP 172427	A3	19870121		
EP 172427	B1	19890705		
EP 172427	B2	19930324		
R: BE, DE, FR, GB, IT, NL, SE				
JP 61031406	A2	19860213	JP 1984-152522	19840723
JP 04030404	B4	19920521		
JP 61034006	A2	19860218	JP 1984-155967	19840726
JP 04030405	B4	19920521		
IN 165525	A	19891104	IN 1985-DE525	19850703
RO 92870	B3	19871130	RO 1985-119582	19850717
CA 1249099	A1	19890117	CA 1985-486934	19850717
ES 545331	A1	19861201	ES 1985-545331	19850718
DD 237514	A5	19860716	DD 1985-278783	19850719
DD 237514	B5	19950601		
FI 8502857	A	19860124	FI 1985-2857	19850722
FI 81816	B	19900831		
FI 81816	C	19901210		
ZA 8505516	A	19860326	ZA 1985-5516	19850722
NO 8502907	A	19860422	NO 1985-2907	19850722
NO 165757	B	19901227		
NO 165757	C	19910410		
HU 39467	A2	19860929	HU 1985-2786	19850722
HU 201786	B	19901228		
CN 85107531	A	19870121	CN 1985-107531	19850722
CN 1006386	B	19900110		
RU 2012565	C1	19940515	RU 1985-3960627	19850722
AU 8545274	A1	19860130	AU 1985-45274	19850723
AU 578109	B2	19881013		
BR 8503491	A	19860415	BR 1985-3491	19850723
PL 146867	B1	19890331	PL 1985-254652	19850723
CZ 278202	B6	19931013	CZ 1985-5441	19850723
CZ 278591	B6	19940316	CZ 1991-3585	19850723
SK 277795	B6	19950308	SK 1985-5441	19850723
SK 277971	B6	19950913	SK 1991-3585	19850723
US 4757124	A	19880712	US 1987-76996	19870721
PRIORITY APPLN. INFO.:				
			JP 1984-152522	A 19840723
			JP 1984-155967	A 19840726
			US 1985-756313	A1 19850718

AB PVC or vinyl chloride copolymer is prepared without polymer deposition and scaling on the polymerization reactor walls by applying an antiscaling coating, comprising ≥ 1 dye, pigment, aromatic or heterocyclic compound having ≥ 5 conjugated π bonds, to the walls of the polymerization reactor and controlling the Cl^- concentration in the reaction mixture to ≤ 100 ppm. Thus, a coating containing 0.5% Basic Black 8 and H_2O was coated onto the polished inner wall surface of a 1000-L polymerization reactor, dried at 80° for 10 min, and thoroughly washed with H_2O . The coated reactor was charged with 200 kg $\text{H}_2\text{C}:\text{CHCl}$, 400 kg H_2O , partially saponified Poval 44, hydroxypropyl methyl cellulose 36, and tert-butylperoxyneodecanoate 60 g. Polymerization was carried out at 52° for 7 h, and the Cl^- concentration was maintained at 13-18 ppm by changing the contents of the MeCl and HCl components contained in the starting monomer. At the end of polymerization, the polymer was taken out and the reactor washed internally with H_2O at flow rate $0.1 \text{ m}^3/\text{m}^2\text{-h}$ for 10 min. Inspection of the wall surfaces after washing demonstrated no adhering of PVC scales, vs. thick adhering of

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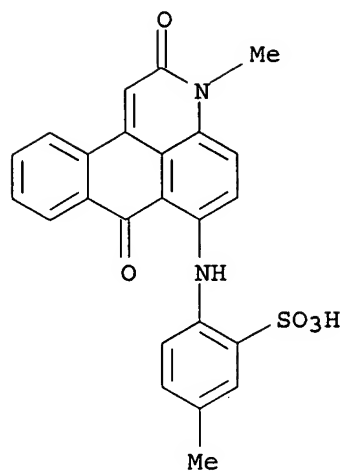
scales over the entire polymerization reactor inner wall surface (1000 g/m²)
for a control polymerization conducted without an antiscaling coating, and with Cl⁻ concentration during polymerization 280-350 ppm.
IT 2611-80-5, Acid Red 82
RL: USES (Uses)
(polymerization reactor wall antiscaling coatings containing, for PVC manufacture)
RN 2611-80-5 CAPLUS
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)



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IT 4478-76-6, Acid Red 80
RL: DEV (Device component use); USES (Uses)
(scale-preventing coatings containing, for polymerization reactor walls in PVC manufacture)
RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)

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● Na

L5 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1982:447119 CAPLUS

DOCUMENT NUMBER: 97:47119

TITLE: Electrostatographic toners

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

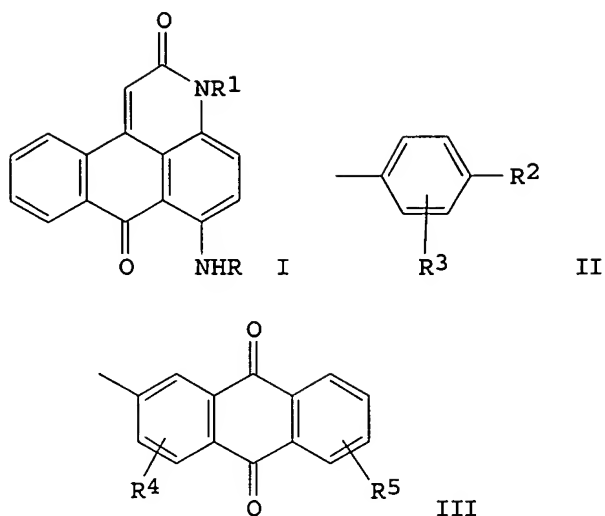
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 57010149	A2	19820119	JP 1980-83587	19800620
PRIORITY APPLN. INFO.:			JP 1980-83587	A 19800620
GI				



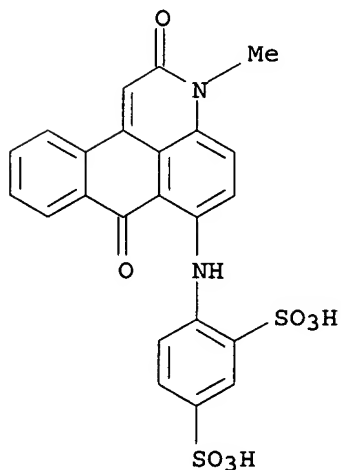
AB Electrostatog. toners contain (1) binder resins, (2) a compound of the formula I [R = II, III; R¹ = H, alkyl; R² = H, alkyl, OH, Th, hydroxyphenyl, halophenyl, alkyl Ph, SO₃M (M = H, alkyl metal, NH₄, aliphatic ammonium, alicyclic ammonium heterocyclic ammonium); R³ = H, halo, OH, alkyl, SO₃M (M = same as above); R⁴, R⁵ = H, OH, alkyl] and a metal-containing dye. Thus, polystyrene 100, C black 6, I (R = p-MeC₆H₄; R¹ = Me) 2, and 3,5-di-tert-butylsalicylic acid-Cr chelate 2 parts were kneaded and pulverized to give an electrostatog. toner having excellent triboelec. property.

IT 2611-80-5 4478-76-6

RL: TEM (Technical or engineered material use); USES (Uses)
(electrostatog. toners containing)

RN 2611-80-5 CAPLUS

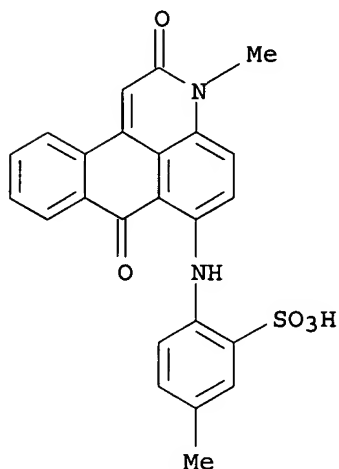
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)



10/529,185

RN 4478-76-6 CAPLUS

CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



● Na

L5 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:527349 CAPLUS

DOCUMENT NUMBER: 79:127349

TITLE: Chromatographic analysis of dyes. 4. Identification of direct dyes by normal, reactive, and pH-dependent chromatography

AUTHOR(S): Schlegelmilch, Franz; Khodadadian, Cyrus

CORPORATE SOURCE: Fachbereich Chem., Fachhochsch. Niederrhein, Krefeld, Fed. Rep. Ger.

SOURCE: Melliand Textilberichte International (1973), 54(10), 1098-101

CODEN: MTXIAW; ISSN: 0375-9350

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Substantive dyes, sulfo group containing hydrophilic dyes, were distinguished from basic and disperse dyes by their pH dependent chromatog. behavior on cellulose acetate; they were distinguished from hydrophilic acid and metal complex dyes by their lack of mobility on cellulose. The individual substantive dyes were separated by chromatog. on silica gel.

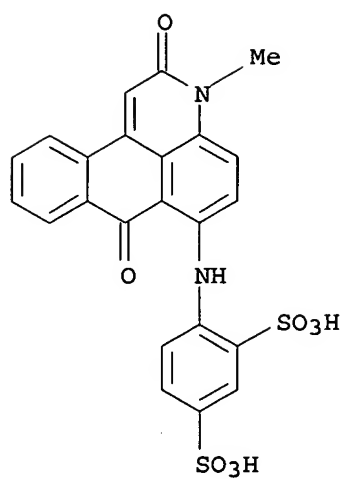
IT 2611-80-5 4478-76-6

RL: ANT (Analyte); ANST (Analytical study)
(chromatog. of)

RN 2611-80-5 CAPLUS

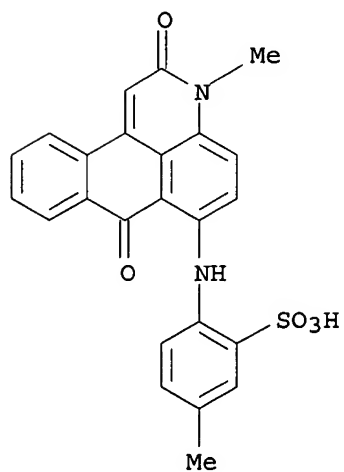
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

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● 2 Na

RN 4478-76-6 CAPLUS
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 10:31:05 ON 01 MAY 2006)

FILE 'REGISTRY' ENTERED AT 10:31:19 ON 01 MAY 2006

E ACID RED 82/CN

L1 1 S E3

L2 1 S E2

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FILE 'CAPLUS' ENTERED AT 10:32:56 ON 01 MAY 2006

L3 54 S L1
L4 33 S L2
L5 14 S L3 AND L4

=> d l1

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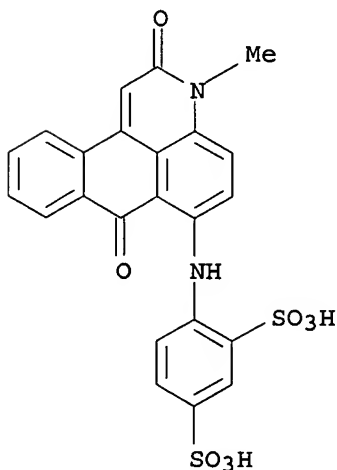
L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 2611-80-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,3-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Naphtho[1,2,3-de]quinoline, 1,3-benzenedisulfonic acid deriv.
CN m-Benzenedisulfonic acid, 4-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, disodium salt (8CI)

OTHER NAMES:

CN Acid Red 82
CN Alizarine Direct Red G
CN Alizarine Rubine 3G
CN Alizarine Rubinol 3G
CN Alizarine Rubinol 3G-CF
CN C.I. 68205
CN C.I. Acid Red 82
CN Diacid Alizarine Rubinol F3G
CN Fenalan Ruby 3B
CN Yamada R 3G
MF C23 H16 N2 O8 S2 . 2 Na
LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, SPECINFO, TOXCENTER, USPAT2, USPATFULL
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (25331-55-9)



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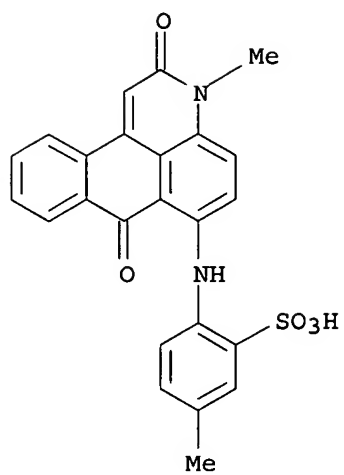
54 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
54 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 4478-76-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonic acid, 2-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-5-methyl-, monosodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3H-Naphtho[1,2,3-de]quinoline, benzenesulfonic acid deriv.
CN m-Toluenesulfonic acid, 6-[(2,7-dihydro-3-methyl-2,7-dioxo-3H-naphtho[1,2,3-de]quinolin-6-yl)amino]-, monosodium salt (8CI)
OTHER NAMES:
CN Acid Red 80
CN Ahcoquinone Rubine R
CN Alizarine Direct Red 2B
CN Alizarine Light Red R
CN Alizarine Rubine R
CN Alizarine Rubinol R
CN Alizarine Rubinol R-CF
CN Anthraquinone Rubine R
CN C.I. 68215
CN C.I. Acid Red 80
CN Erio Anthracene Rubine R
CN Erio Fast Rubine R
CN Erionyl Rubine E 2BFL
CN Erionyl Rubine ER
CN Fenalan Ruby R
CN Nylomine Acid Red B 5B
CN Solway Rubinol R
CN Solway Rubinole RA
CN Superian Rubinol R
CN Supracen Red 3B
MF C24 H18 N2 O5 S . Na
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (27711-77-9)

10/529,185



● Na

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

33 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
33 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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